

1) Publications Intellectually Led By This FWP:

"First-principles Study of Quasiparticle Energies of a Bipolar Molecule in a Scanning Tunneling Microscope Measurement", G. Samsonidze, [M.L. Cohen](#), and [S.G. Louie](#), *Comp. Mat. Sci* vol. 91, p. 187, **2014**. DOI: [10.1016/j.commatsci.2014.04.049](https://doi.org/10.1016/j.commatsci.2014.04.049).

"Mechanical operation and intersubunit coordination of ringshaped molecular motors: insights from single-molecule studies", S. Liu, G. Chistol, [C. Bustamante](#), *Biophys. J.* vol. 106, p. 1844, **2014**. DOI: [10.1016/j.bpj.2014.03.029](https://doi.org/10.1016/j.bpj.2014.03.029).

"Transcription factors IIS and IIF enhance transcription efficiency by differentially modifying RNA polymerase pausing dynamics", T. Ishibashi, M. Dangkulwanich, Y. Coello, T. A. Lionberger, L. Lubkowska, A. S. Ponticelli, M. Kashlev, and [C. Bustamante](#), *PNAS* vol. 111, p. 3419, **2014**. DOI: [10.1073/pnas.1401611111](https://doi.org/10.1073/pnas.1401611111).

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"Local Electronic and Chemical Structure of Oligo-acetylene Derivatives Formed Through Radical Cyclizations at a Surface", A. Riss, S. Wickenburg, P. Gorman, L. Z. Tan, H.-Z. Tsai, D. G. de Oteyza, Y.-C. Chen, A. J. Bradley, M. M. Ugeda, G. Etkin, [S. G. Louie](#), F. R. Fischer, and [M. F. Crommie](#), *Nano Lett.* vol. 14, p. 2251, **2014**. DOI: [10.1021/nl403791q](https://doi.org/10.1021/nl403791q).

"Intermolecular Interactions and Substrate Effects for an Adamantine Monolayer on a Au(111) surface", Y. Sakai, G.D. Nguyen, R.B. Capaz, S. Coh, I.V. Pechenezhskiy, X. Hong, [F. Wang](#), [M.F. Crommie](#), S. Saito, [S.G. Louie](#), and [M.L. Cohen](#), *Phys. Rev. B* vol. 88, p. 235407, **2013**. DOI: [10.1103/PhysRevB.88.235407](https://doi.org/10.1103/PhysRevB.88.235407).

"Polymer-free, low tension graphene mechanical resonators", B. Alemán, M. Rousseas, Y. Yang, W. Regan, [M. Crommie](#), [F. Wang](#), and [A. Zettl](#), *Phys. Status Solidi RRL* vol. 7, p. 1064, **2013**. DOI: [10.1002/pssr.201300087](https://doi.org/10.1002/pssr.201300087).

2) Collaborative Publications:

"Bottom-up graphene nanoribbon field-effect transistors", P. B. Bennett, Z. Pedramrazi, A. Madani, Y.-C. Chen, D. G. de Oteyza, C. Chen, F. R. Fischer, [M. F. Crommie](#), and [J. Bokor](#), *Appl. Phys. Lett.* vol. 103, p. 253114, **2013**. DOI: [10.1063/1.4855116](https://doi.org/10.1063/1.4855116).

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"Molecular Mechanisms of Transcription through Single-Molecule Experiments", M.
Dangkulwanich, T. Ishibashi, L. Bintu, and [C. Bustamante](#), *Chem. Rev.* vol. 114, p. 3203, **2014**.
DOI: 10.1021/cr400730x.

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"Atomically perfect torn graphene edges and their reversible reconstruction", K. Kim, S. Coh, C.
Kisielowski, [M.F. Crommie](#), [S.G. Louie](#), [M.L. Cohen](#) & [A. Zettl](#), *Nature Commun.* vol. 4, p. 2723,
2013. DOI: 10.1038/ncomms3723.

"Tunable phonon polaritons in atomically thin van der Waals crystals of boron nitride", S. Dai, Z.
Fei, Q. Ma, A. S. Rodin, M. Wagner, A. S. McLeod, M. K. Liu, W. Gannett, W. Regan, K.
Watanabe, T. Taniguchi, M. Thiemens, G. Dominguez, A. H. Castro Neto, [A. Zettl](#), F. Keilmann, P.
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10.1126/science.1246833

"Atomic Force Microscopy of Photosystem II and Its Unit Cell Clustering Quantitatively
Delineate the Mesoscale Variability in *Arabidopsis* Thylakoids", B. Onoa, A. R. Schneider, M. D.
Brooks, P. Grob, [E. Nogales](#), [P. L. Geissler](#), K. K. Niyogi, [C. Bustamante](#), *PLoS ONE* vol. 9, p.
e101470, **2014**. DOI: 10.1371/journal.pone.0101470.